

Title (en)

Light emitting display (LED) and display panel and pixel circuit thereof

Title (de)

Elektrolumineszente Anzeigevorrichtung, Anzeigetafel und Pixelschaltung

Title (fr)

Affichage électroluminescent, panneau d'affichage et circuit de pixel correspondant.

Publication

EP 1622122 A1 20060201 (EN)

Application

EP 05106914 A 20050727

Priority

KR 20040059213 A 20040728

Abstract (en)

A display panel includes: data lines adapted to transmit a data signal; scan lines adapted to transmit a select signal; and pixels, each pixel being coupled to one of the scan lines and one of the data lines, and each pixel including: light emitting elements adapted to emit light corresponding to a current supplied thereto; a pixel driver adapted to input the data signal while the select signal is being supplied and to output a first current corresponding to the data signal; and switching units adapted to transmit the first current to the light emitting elements, each of the switching units including first transistors respectively coupled between the pixel driver and the light emitting elements, and having different type channels.

IPC 8 full level

G09G 3/32 (2006.01); **H05B 44/00** (2022.01)

CPC (source: EP KR US)

G09G 3/30 (2013.01 - KR); **G09G 3/3233** (2013.01 - EP US); **G09G 2300/0804** (2013.01 - EP US); **G09G 2300/0814** (2013.01 - EP US); **G09G 2300/0819** (2013.01 - EP US); **G09G 2300/0842** (2013.01 - EP US); **G09G 2300/0852** (2013.01 - EP US); **G09G 2300/0861** (2013.01 - EP US); **G09G 2310/0224** (2013.01 - EP US); **G09G 2310/0235** (2013.01 - EP US); **G09G 2310/0262** (2013.01 - EP US); **G09G 2320/043** (2013.01 - EP US)

Citation (search report)

- [XY] US 6421033 B1 20020716 - WILLIAMS GEORGE M [US], et al
- [Y] US 5854494 A 19981229 - YAMAZAKI SHUNPEI [JP], et al
- [Y] US 2004070557 A1 20040415 - ASANO MITSURU [JP], et al

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1622122 A1 20060201; CN 100433107 C 20081112; CN 1737894 A 20060222; JP 2006039505 A 20060209; JP 4095989 B2 20080604; KR 100590068 B1 20060614; KR 20060010491 A 20060202; US 2006022909 A1 20060202; US 7545352 B2 20090609

DOCDB simple family (application)

EP 05106914 A 20050727; CN 200510109878 A 20050728; JP 2005010500 A 20050118; KR 20040059213 A 20040728; US 18482005 A 20050720